## LISTING OF THE CLAIMS

- 1. (currently amended) A medical container having a negative image bar code comprising:
- a medical container <u>comprising transparent</u> plastic film
- a plurality of light-reflecting segments disposed on the container film,

wherein the container  $\underline{\text{film}}$  defines spaces that separate the light-reflecting segments,

wherein the  $\underline{\text{film defining the}}$  spaces  $\underline{\text{also}}$  itself defines light-absorbing segments,

wherein the light-reflecting segments and the light-absorbing segments define a negative image bar code representing fixed information and variable information,

wherein the negative image bar code is detectable using a reader, and

wherein the variable information comprises at least one selected from the group consisting of: lot number, batch number, expiration date, serial number, production time, price, and concentration.

2. (previously presented) The medical container of claim 1 wherein the light-reflecting segments are indicia that can be detected by a reader.

- 3. (previously presented) The medical container of claim 2 wherein the indicia is visible to the naked human eye.
- 4. (previously presented) The medical container of claim 3 wherein the indicia has a color selected from the group consisting of white, red, yellow, orange, gold, and silver.
- 5. (previously presented) The medical container of claim 2 wherein the indicia is not visible to the naked human eye.
- 6. (previously presented) The medical container of claim 1 wherein the fixed information remains unchanged for a first period of time while the variable information changes during the first period.
- 7. (previously presented) The medical container of claim 1 wherein the fixed information is selected from the group consisting of product name, product manufacturer, Universal Product Code, Universal Product Number, National Drug Code, National Health Related Industry Code, and label copy data.
  - 8. (canceled)
  - 9. (canceled)
- 10. (currently amended) The medical container of claim 1 wherein the medical container  $\underline{\text{film}}$  comprises a thermoplastic polymer or a thermoset polymer.

- 11. (previously presented) The medical container of claim 10 wherein the thermoplastic polymer or the thermoset polymer is group consisting of polyvinylchloride, from the selected polyvinyldichloride, polyolefins, polyamides, polycarbonates, polyesters, thermoplastic elastomers, elastomers, polyimides, polyurethanes, ethylene vinyl alcohol copolymers, ethylene vinyl acetate copolymers, ethylene copolymers, propylene copolymers, acrylic acid copolymers, ethylene substituted acrylic acid copolymers,  $\alpha$ -olefin substituted acrylic acid copolymers, hydrocarbon block polymers, ethylene propylene diene polymers, mono-layer film structures and multi-layer nylon, structures.
- 12. (previously presented) The medical container of claim 11 wherein the polyolefin is produced from an  $\alpha$ -olefin having from about 2 to about 20 carbons.
- 13. (previously presented) The medical container of claim 12 wherein the  $\alpha\text{-olefin}$  is ethylene or propylene.
- 14. (currently amended) A container having a negative image bar code, the container comprising:
  - a flexible <u>transparent plastic</u> film;
- a plurality of light-reflecting segments disposed on the film,

wherein the film defines spaces that

separate the light-reflecting segments,

wherein the  $\underline{\text{film defining the}}$  spaces  $\underline{\text{also}}$  itself defines light-absorbing segments,

wherein the light-reflecting segments and the light-absorbing segments define a negative image bar code representing fixed information and variable information,

wherein the variable information comprises at least one selected from the group consisting of: lot number, batch number, expiration date, serial number, production time, price, and concentration, and

wherein the negative image bar code is detectable using a reader.

- 15. (currently amended) A medical container having a negative image bar code comprising:
  - a medical container <a href="comprising transparent">comprising transparent</a>
    plastic film;
- a first plurality of light-reflecting segments disposed on the medical container film, wherein the medical container film defines first spaces that separate the first light-reflecting segments, plurality of wherein the film defining the first spaces also itself defines a first set of light-absorbing segments, and wherein the first plurality and the first set define a first negative image bar code

representing fixed information;

a second plurality of light-reflecting segments disposed on the medical container <u>film</u>, wherein the medical container <u>film</u> defines second spaces that separate the second plurality of light-reflecting segments, wherein the <u>film</u> <u>defining the</u> second spaces <u>also itself</u> defines a second set of light-absorbing segments, wherein the second plurality and the second set define a second negative image bar code representing variable information, wherein the variable information comprises at least one selected from the group consisting of: lot number, batch number, expiration date, serial number, production time, price, and concentration; and

wherein the first bar code and the second bar code are each detectable using a reader.

- 16. (currently amended) A medical container having a negative image bar code comprising:
  - a medical container <u>comprising transparent</u> plastic film;
- a plurality of light-reflecting segments disposed on the medical container <u>film</u>, wherein the medical container <u>film</u> defines spaces that separate the plurality of light-reflecting segments, and wherein the <u>film defining the</u> spaces <u>also itself defines</u> light-absorbing segments;

wherein the light-reflecting segments and the light-absorbing segments define a negative image bar code representing variable information;

wherein the negative image bar code is detectable using a reader; and

wherein the variable information comprises at least one selected from the group consisting of: lot number, batch number, expiration date, serial number, production time, price and concentration.

- 17. (currently amended) A container comprising:
  - a flexible transparent plastic film;

a plurality of light-reflecting segments disposed on the flexible film, wherein the flexible film defines spaces separate the plurality of light-reflecting wherein the film defining the spaces also itself defines a set of light-absorbing segments, wherein the plurality and the set representing variable define negative image bar code information, wherein the bar code is detectable using a reader, and wherein the variable information comprises at least one selected from the group consisting of: lot number, batch number, expiration date, serial number, production time, price and concentration.

18. (currently amended) A container system comprising:

a medical container <u>comprising transparent</u> plastic film;

a plurality of light-reflecting segments disposed on the medical container <u>film</u>, wherein the medical container <u>film</u> defines spaces that separate the plurality of light-reflecting segments, wherein the <u>film defining the</u> spaces <u>also itself defines</u> light-absorbing segments, wherein the light-reflecting segments and the light-absorbing segments define a negative image bar code representing fixed information and variable information, and

a material positioned over a portion of the bar code, wherein the portion has an A or B scan grade when decoded through the material and in accordance with ANSIX3.182.

- 19. (currently amended) A container system comprising:
- a medical container <u>comprising transparent</u> plastic film;
- a first plurality of light-reflecting segments disposed on the medical container film, wherein the medical container film defines first spaces that separate the first light-reflecting segments, wherein plurality of the film defining the first spaces also itself defines a first set of light-absorbing segments, and wherein the first plurality and define first negative image bar the first set a code

representing fixed information;

a second plurality of light-reflecting segments disposed on the medical container <u>film</u>, wherein the medical container <u>film</u> defines second spaces that separate the second plurality of light-reflecting segments, wherein the <u>film</u> <u>defining the</u> second spaces <u>also itself</u> defines a second set of light-absorbing segments, and wherein the second plurality and the second set define a second negative image bar code representing variable information; and

a material positioned over a portion each bar code, wherein each portion has an A or B scan grade when decoded through the material and in accordance with ANSIX3.182.

- 20. (currently amended) A container system comprising:
- a medical container <u>comprising transparent</u> plastic film;

a plurality of light-reflecting segments disposed on the medical container <u>film</u>, wherein the medical container <u>film</u> defines spaces that separate the plurality of light-reflecting segments, wherein the <u>film defining the</u> spaces <u>also itself defines</u> a set of light-absorbing segments, wherein the plurality and the set define a negative bar code representing variable information;

a material positioned over a portion of the bar

code, and

wherein the portion of the bar code has an A or B scan grade when decoded through the material and in accordance with ANSIX3.182.

- 21. (currently amended) A container system comprising:
- a flexible container <u>comprising a transparent</u> plastic film;

a plurality of light-absorbing segments disposed on the flexible container <u>film</u>, wherein the flexible container <u>film</u> defines spaces that separate the plurality of light-reflecting segments, wherein the <u>film defining the</u> spaces <u>also itself defines</u> light-absorbing segments, wherein the light-reflecting segments and the light-absorbing segments define a negative image bar code representing fixed information and variable information, wherein the variable information comprises at least one selected from the group consisting of: lot number, batch number, expiration date, serial number, production time, price, and concentration, and wherein the bar code is detectable using a reader;

a material positioned over a portion of the bar code, wherein the portion of the bar code has an A or B scan grade when decoded through the material and in accordance with ANSIX3.182.

- 22. (currently amended) A container comprising:
- a <u>transparent plastic</u> film that defines the container

a plurality of light-reflecting segments disposed on the film, wherein the film defines spaces that separate the light-reflecting segments, wherein film defining the spaces also itself defines a set of light absorbing segments, wherein the plurality and the set define a negative image bar code representing variable information, wherein the bar code can be detected by a reader, and wherein the variable information comprises at least one selected from the group consisting of: lot number, batch number, expiration date, serial number, production time, price, and concentration.

23. (currently amended) A method of transferring a negative image bar code onto a flexible web comprising the steps of:

providing a flexible transparent plastic web;

providing a printer capable of transferring a plurality of light-reflecting segments onto the web in response to a signal representative of the plurality of light-reflecting segments,

transferring the signal to the printer; and
transferring the plurality of light-reflecting
segments onto the web, wherein the transparent plastic web

defines spaces that separate the plurality of light-reflecting segments, wherein the web that defines the spaces also itself defines a plurality light-absorbing segments, wherein the light-reflecting segments and the light-absorbing segments define a negative image bar code that can be detected by a reader, wherein the negative image bar code represents fixed information and variable information, and wherein the variable information comprises at least one selected from the group consisting of: lot number, batch number, expiration date, serial number, production time, price, and concentration.

- 24. (previously presented) The method of claim 23 wherein the printer is a thermal transfer printer, a hot-stamp printer, a laser printer, an ink-jet printer, or a flexographic printer.
  - 25. (currently amended) A container system comprising:
  - a flexible container <u>comprising a transparent</u> plastic film;

a plurality of light-reflecting segments disposed on the flexible container <u>film</u>, wherein the flexible container <u>film</u> defines spaces that separate the plurality of light-reflecting segments, wherein the <u>film that defines the</u> spaces <u>also itself defines</u> light-absorbing segments, wherein the light-reflecting segments and the light-absorbing segment define a negative image bar code representing variable information,

wherein the variable information comprises at least one selected from the group consisting of: lot number, batch number, expiration date, serial number, production time, price, and concentration; and

a material positioned over a portion of the negative image bar code, wherein the portion of the bar code has an A or B scan grade when decoded through the material and in accordance with ANSIX3.182.

26-32. (canceled)

- 33. (previously presented) The container of claim 14 wherein the container is a medical container.
- 34. (previously presented) The container of claim 33 wherein the light-reflecting segments are indicia having a color selected from the group consisting of white, red, yellow, orange, gold, and silver.
- 35. (previously presented) The medical container of claim
  34 wherein the negative image bar code comprises a symbology
  selected from the group consisting of: Code 16K, Code 39, Code
  49, Codabar, Code 128, UPC-E, UPC-A, EAN-8, EAN-13, Reduced
  Space Symbology, composite symbol, PDF-417, and Interleaved 2of-5.
- 36. (previously presented) The medical container of claim

  34 wherein the negative image bar code is a two-dimensional

symbology.

- 37. (previously presented) The medical container of claim
  15 wherein the medical container is flexible.
- 38. (previously presented) The medical container of claim
  15 wherein the first or second negative image bar code comprises
  a symbology selected from the group consisting of: Code 16K,
  Code 39, Code 49, Codabar, Code 128, UPC-E, UPC-A, EAN-8, EAN13, Reduced Space Symbology, composite symbol, PDF-417, and
  Interleaved 2-of-5.
- 39. (previously presented) The medical container of claim 16 wherein the medical container is flexible.
- 40. (previously presented) The medical container of claim
  16 wherein the light-reflecting segments are indicia having a
  color selected from the group consisting of white, red, yellow,
  orange, gold, and silver.
- 41. (previously presented) The medical container of claim
  40 wherein the negative image bar code comprises a symbology
  selected from the group consisting of: Code 16K, Code 39, Code
  49, Codabar, Code 128, UPC-E, UPC-A, EAN-8, EAN-13, Reduced
  Space Symbology, composite symbol, PDF-417, and Interleaved 2of-5.
- 42. (previously presented) The medical container of claim
  40 wherein the negative image bar code is a two-dimensional

symbology.

- 43. (previously presented) The container of claim 17 wherein the container is a medical container.
- 44. (previously presented) The container of claim 43 wherein the negative image bar code has a length less than 72 millimeters.
- 45. (previously presented) The container of claim 43 wherein the negative image bar code has a length less than or equal to 52 millimeters.
- 46. (previously presented) The container of claim 43 wherein the negative image bar code has a length less than or equal to 22 millimeters.
- 47. (previously presented) The container system of claim 18 wherein the negative image bar code has a length less than 72 millimeters.
- 48. (previously presented) The container system of claim 18 wherein the negative image bar code has a length less than or equal to 52 millimeters.
- 49. (previously presented) The container system of claim 19 wherein the negative image bar code has a length less than 72 millimeters.
- 50. (previously presented) The container system of claim 19 wherein the negative image bar code has a length less than or

equal to 52 millimeters.

- 51. (previously presented) The container system of claim 19 wherein the second plurality of light-reflecting segments are indicia having a color selected from the group consisting of white, red, yellow, orange, gold, and silver.
- 52. (previously presented) The container system of claim 20 wherein the medical container is flexible.
- 53. (previously presented) The container system of claim 52 wherein each bar code has a length less than 72 millimeters.
- 54. (previously presented) The container system of claim 52 wherein the material is an overpouch comprising polyethylene, and wherein the overpouch has a thickness of at least 2 mils.
- 55. (previously presented) The container system of claim 54 wherein the thickness of the overpouch is at least 4 mils.
- 56. (previously presented) The container system of claim 54 wherein the thickness of the overpouch is at least 8 mils.
- 57. (previously presented) The container system of claim 52 wherein each bar code has a length less than 52 millimeters.
- 58. (previously presented) The container system of 21 wherein the bar code has a length less than 72 millimeters.
- 59. (currently amended) The container of claim 22 further comprising a second plurality of light-reflecting segments disposed on the film, wherein the film defines spaces that

separate the second plurality of light-reflecting segments, wherein the <u>film defining the</u> spaces <u>also itself</u> defines a second set of light-absorbing segments, wherein the second plurality and the second set define a second negative image bar code, wherein the second negative image bar code can be detected by a reader, and wherein the second negative image bar code represents fixed information.

- 60. (previously presented) The container of claim 59 wherein each negative image bar code is characterized in having an A or B scan grade when decoded in accordance with ANSIX3.182 through an overpouch comprising polyethylene, wherein the overpouch has a thickness of at least 2 mils.
- 61. (previously presented) The container of claim 60 wherein each negative image bar code has a length less than 72 millimeters.
- 62. (previously presented) The container of claim 60 wherein each negative image bar code has a length less than or equal to 52 millimeters.
- 63. (currently amended) A medical container <u>comprised of</u> transparent plastic film and having a bar code comprising:
- a negative bar code disposed on the medical container  $\underbrace{\text{film}}$ ,

wherein the film of the medical container

itself defines at least two spaces in the bar code, the spaces
absorbing light,

wherein the negative image bar code is detectable with a bar code reader,

wherein the negative image bar code comprises variable information, and

wherein the variable information comprises at least one selected from the group consisting of: lot number, batch number, expiration date, serial number, production time, price, and concentration.

- 64. (previously presented) The medical container of claim 63 wherein the medical container is flexible.
- 65. (previously presented) The medical container of claim 64 wherein the bar code further comprises fixed information.
- 66. (previously presented) The medical container of claim
  63 wherein the spaces have a maximum reflectance of about
  twenty-five percent.
- 67. (previously presented) The medical container of claim 52 wherein the negative image bar code comprises a symbology selected from the group consisting of: Code 16K, Code 39, Code 49, Codabar, Code 128, UPC-E, UPC-A, EAN-8, EAN-13, Reduced Space Symbology, composite symbol, PDF-417, and Interleaved 2-of-5.

- 68. (previously presented) The medical container of claim 64 wherein the negative image bar code is a two-dimensional symbology.
- 69. (previously presented) The medical container of claim
  64 wherein the negative image bar code has a length less than 72
  millimeters and is characterized as having an A or B scan grade
  when decoded in accordance with ANSIX3.182 through an overpouch
  having a thickness of at least 2 mils.
- 70. (previously presented) The medical container of claim 64 wherein the negative image bar code has a length less or equal to 52 millimeters and is characterized as having an A or B scan grade when decoded in accordance with ANSIX3.182 through an overpouch having a thickness of at least 2 mils.
- 71. (previously presented) The medical container of claim 6 wherein the first period of time is one day.